

DA 85-R Crew Served Machineguns

M-249 Light Machinegun (w/Tripod) LIN# M39263

M-60/M240B

Ref: FM 23-68/FM 3-22.68 & DA PAM 350-38 Para. 5-6e/f.

1. 80% of soldiers assigned M-249 LMG/ M-60/ M-240B must Zero and Qualify every 12 months.
2. Soldiers will fire 10m Zero/Qualification and Day Transition Fire with Iron Sight. Chap. 4-33 to 4-39.
3. Soldiers assigned the Machinegun Optical Sight (MGO) will Zero and fire 10m and Day Transition Fire. Appendix G.
4. Soldiers assigned Thermal Weapon Sight (TWS) or Infrared Aiming Light (IAL) will fire Night Fire. Chap. 4-40 to 4-42 & Appendix G.
5. 10m Zero/Qualification will be fired on EST 2000, if available. EST 2000 currently unavailable to AZNG.

FIRING INSTRUCTIONS- M-249 LMG/ M240/ M-60

Refer to FM 3-22.68 for the proper Zeroing Instructions for each Machinegun, M-249/M-240/M-60.

M-249LMG SECT. III SIGHTS para. 1-74 to 1-77

M-60 SECT. III SIGHTS para. 2-71 to 2-74

M-240 SECT. III SIGHTS para. 3-75 to 3-78

There is no reason to record the 10-meter zero, because it applies only to firing at the 10-meter basic machine gun target
Both the gunner and assistant gunner practice and qualify.

Remember to zero both barrels of the machine gun.

For practice and qualification, the gunner and AG will use either a tripod-supported prone or tripod-supported fighting position.

TEN-METER QUALIFICATION FIRE

Task 1—Tripod, Zero- 12 single rounds

The gunner engages paster A1 with three single shots.

The gunner moves downrange to observe, mark, and triangulate the shot group.

Steps 1&2 are repeated for paster A2, making sight corrections as necessary.

If the gunner zeros his weapon using 9 rounds, he uses the remaining 3 to confirm his zero.

If he is unable to zero with 12 rounds, he is removed from the firing line for remedial training.

Task 2—Tripod, Controlled-Burst Fire, Traverse- one 14 round belt

The gunner fires the first burst of 7 rounds at paster A3.

The gunner fires the second burst of 7 rounds at paster A4.

Task 3—Tripod, Controlled-Burst Fire, Traverse and Search- one 35 round belt

The gunner engages pasters A5 to A6, firing a 5- to 7-round burst at each paster, using traverse and search.

Task 4—Tripod, Controlled-Burst Fire, Search and Traverse- one 56 round belt

The gunner engages pasters A7 to A8, firing a 5- to 7-round burst at each paster, using search and traverse technique

The gunner and assistant gunner move downrange to observe and analyze the targets.

Task 5—Tripod, Qualification, Search and Traverse Fire- one 56 round belt

The gunner engages pasters B7 to B8, firing a 5- to 7-round burst at each paster, using search and traverse technique.

The gunner has 45 seconds to engage as many pasters as he can during the time allowed.

Task 6—Tripod, Qualification, Traverse and Search- one 35 round belt

The gunner engages pasters B5 and B6, firing a 5- to 7-round burst at each paster, using search and traverse technique.

He has 30 seconds to engage as many pasters as he can.

On completion of all firing, the firing line is cleared and the trainers or safeties move downrange and score the targets.

The firer will not score his own target.

Assistant Gunner--Ten-Meter Practice and Qualification

After the gunner finishes firing, he and the assistant gunner swap positions.

The assistant gunner then fires the same tasks in the 10-meter practice and qualification tables,

but he fires at the pasters on Sections C and D.

Scoring.

When scoring the 10-meter target, the trainer scores all scoring pasters (B5 through B6 and B7 through B8).

The maximum number of scored hits is 7 per paster.

Rounds touching the line on the paster are considered a HIT.

When firing B5 through B6, the maximum possible score is 35 points.

When firing pasters B7 through B8, the maximum possible score is 56 points.

During 10m Qualification Firing, at least 63 points must be achieved to successfully qualify on Table I.

Penalties

Five points are deducted from the score of any gunner who fails to stop firing at the command or signal to cease fire.

. If a gunner fires at the wrong target or exercise, he loses the points for those rounds.

A gunner whose target was fired upon by another gunner is permitted to refire the exercise.

Stoppages

If a stoppage occurs, the gunner must apply immediate action. If the stoppage is reduced, he continues to fire the course.

If a stoppage occurs that cannot be reduced by immediate action, the gunner raises his hand and awaits assistance

Once he reduces the stoppage, the gunner completes firing, beginning with the next task.

If gunner error causes a stoppage, additional time is not allowed. He receives whatever score he earned before the stoppage occurred.

If the machine gun must be replaced, the gunner must zero it and fire the exercise again.

Gunnery that fail to complete a Task in the allowed time, due to malfunction, may elect to complete those Tasks in an Alibi run.

They only need to complete the unfinished Tasks during the Alibi.

TRANSITION FIRE

Transition firing is fired and scored for practice and qualification to provide feedback to the gunner.

Ten points are given for each target hit, whether hit on the first or second burst. The total possible points are 110.

The gunner must hit at least 7 (70 points) targets out of 11 exposures to qualify.

Transition Fire is conducted from the tripod prone or fighting position.

Based on his METL, the commander may select the bipod-supported prone or bipod-supported fighting position.

Each firing order should consist of a gunner, and an assistant gunner to assist him during qualification in target detection and adjustments.

Gunnery will fire Tasks 2-8 during Qualification, Tasks 1-8 with Field Zero are fired during Practice.

Task 1-Field Zero, 500-Meter, Double E-Type Silhouette. One 28-round belt.

The gunner prepares the rear sight for field zeroing and checks the front sight blade.

The gunner fires a 5- to 7-round burst at the target.

The gunner observes the beaten zone. If the rounds miss the target, he makes adjustments for windage and elevation.

After adjustments have been made, the gunner repeats with the remaining rounds until rounds are impacting on the target.

He records his zero.

Task 2-400-Meter, Double E-Type Silhouette. One 154-round belt. Tasks 2-8.

The fire command is given only once for Tasks 2 through 8.

A 400-meter, double E-type target is exposed for 10 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 3-500-Meter, Double E-Type Silhouette.

The gunner and assistant gunner continues to scan the sector.

A 500-meter, double E-type target is exposed for 15 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 4-600-Meter, Double E-Type Silhouette.

The gunner and assistant gunner continues to scan the sector.

A 600-meter, double E-type target is exposed for 30 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 5-800-Meter, Double E-Type Silhouette

The gunner and assistant gunner continues to scan the sector.

An 800-meter, double E-type target is exposed for 30 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 6-400-Meter, Double E-Type Silhouette; and 600-Meter, Double E-Type Silhouettes

The gunner and assistant gunner continues to scan the sector.

A 400-meter double E-type target and a 600-meter double E-type target are exposed for 30 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 7-700-Meter and 800-Meter, Double E-Type Silhouettes

The gunner and assistant gunner continues to scan the sector.

A 700-meter double E-type target and a 800-meter double E-type target are exposed for 45 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 8-400-Meter, Double E-Type Silhouette, and 500-Meter, 600-Meter, Double E-Type Silhouettes

The gunner and assistant gunner continues to scan the sector.

The 400-meter double E-type silhouettes, and 500- and 600-meter double E-type silhouettes are exposed for 45 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

TRANSITION NIGHT FIRE M-249 LMG/ M-240/ M-60 Ref; TC-23 AIMSS & FM 3-22.68 Appx. G

NOTES:

1. Prior to night qualification with the M249 LMG/ M-240/ M-60, soldiers must attain the minimum standards for 10-meter day and transition day firing tables (refer to FM 3-22.68).
2. Although no night qualification standards are outlined in FM 3-22.68, STRAC authorizes ammunition for soldiers to qualify at night.
3. FM 3-22.68, TC-23 AIMSS and DA PAM 350-38 STRAC each list different and conflicting Night Qualification Courses of Fire.
4. Correspondence with 29th Infantry Regiment- Advanced Infantry Marksmanship Standards and Strategies (AIMSS) reflects that there currently is no resolution for the conflicts.
5. All three manuals will be revised in the future to resolve the conflicts.
6. Current guidance is for units to use whichever Course of Fire the local facilities can best support.
7. Training Site Command has adopted the Night Course of Fire detailed in TC-23 AIMSS.
8. The M249 with the AN/PAS-13 qualifies using the standard day table for M249 Automatic Rifle.
9. Mounting, Boresighting and Zero procedures are detailed in FM 3-22.68 Appx. G
- 10 Night Transition firing is fired and scored for practice and qualification to provide feedback to the gunner.
11. The gunner must hit at least 6 targets out of 11 exposures to qualify.
12. Night Transition Fire is conducted from the tripod prone or fighting position.
13. Based on his METL, the commander may select the bipod-supported prone or bipod-supported fighting position.
14. Each firing order should consist of a gunner, and assistant gunner to assist him during qualification in target detection and adjustments.
15. Gunners will fire Tasks 2-8 during Qualification, Tasks 1-8 with Field Zero are fired during Practice.

Task 1-Field Zero, 300-Meter, Single E-Type Silhouette. One 28-round belt.

The gunner must ensure that the Night Vision Device (NVD) being used has been properly installed and boresighted before Field Zeroing..

The gunner fires a 5- to 7-round burst at the target.

The gunner observes the beaten zone. If the rounds miss the target, he makes adjustments for windage and elevation.

After adjustments have been made, the gunner repeats with the remaining rounds until rounds are impacting on the target.

He records his zero.

Task 2- 300 Meter, Single E-Type Silhouette. One 154-round belt. Tasks 2-8.

The fire command is given only once for Tasks 2 through 8.

A 300-meter, single E-type target is exposed for 10 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 3-400-Meter, Double E-Type Silhouette.

The gunner and assistant gunner continues to scan the sector.

A 400-meter, double E-type target is exposed for 15 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 4-200-Meter, Single E-Type Silhouette.

The gunner and assistant gunner continues to scan the sector.

A 200-meter, single E-type target is exposed for 10 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 5-400-Meter, Double E-Type Silhouette

The gunner and assistant gunner continues to scan the sector.

A 400-meter, double E-type target is exposed for 15 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 6-200-Meter, Single E-Type Silhouette; and 300-Meter, Single E-Type Silhouettes

The gunner and assistant gunner continues to scan the sector.

A 200-meter single E-type target and a 300-meter single E-type target are exposed for 30 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 7-200-Meter Single E-Type Silhouette and 400-Meter, Double E-Type Silhouettes

The gunner and assistant gunner continues to scan the sector.

A 200-meter single E-type target and a 400-meter double E-type target are exposed for 30 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment

Task 8- 200-Meter and 300-Meter Single E-Type Silhouette, 400-Meter, Double E-Type Silhouettes

The gunner and assistant gunner continues to scan the sector.

The 200 meter and 300 meter single E-type silhouettes- and 400-meter double E-type silhouettes are exposed for 45 seconds.

The gunner determines the range, places the proper setting on the rear sight, and fires a 5- to 7-round burst.

If the gunner fails to hit the target, he fires another 5- to 7-round burst

using the adjusted aiming point method of fire adjustment